

FIG. 1A

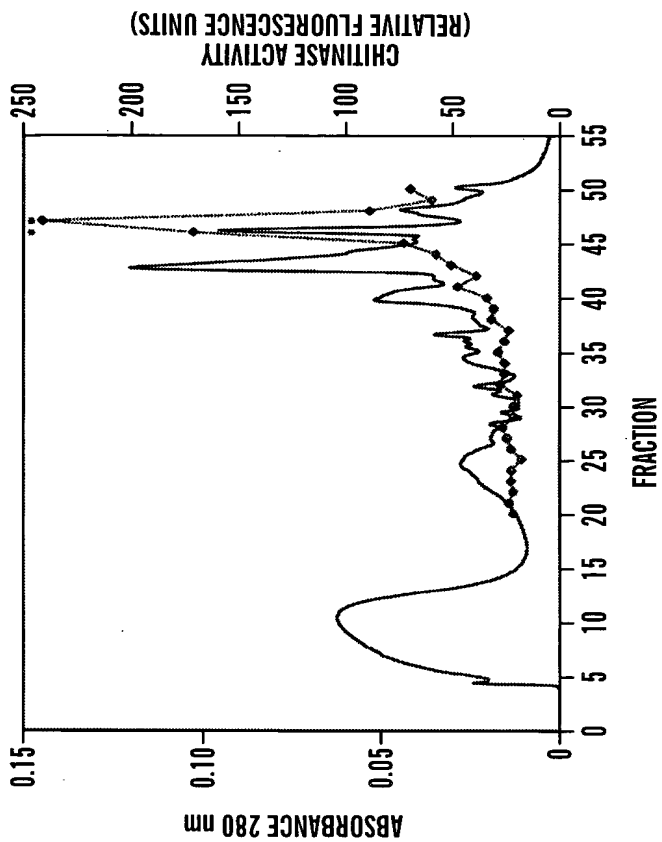


FIG. 1B



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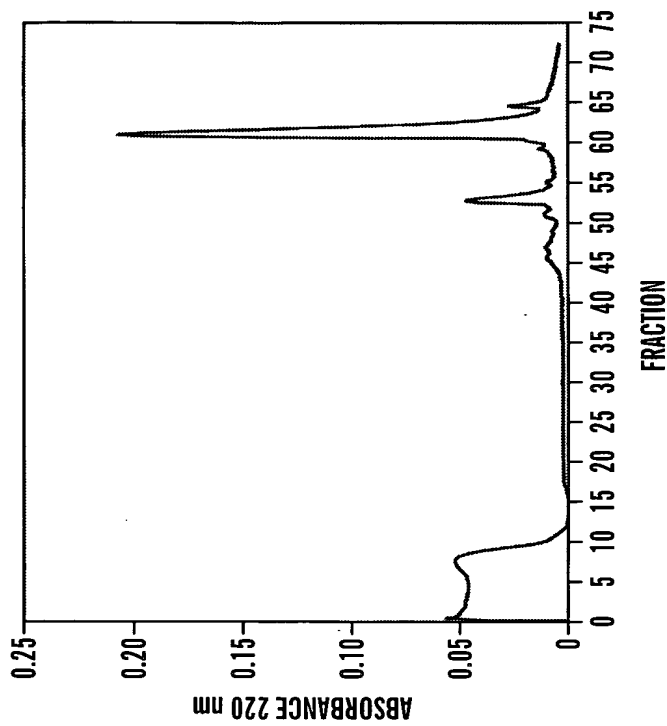


FIG. 1D

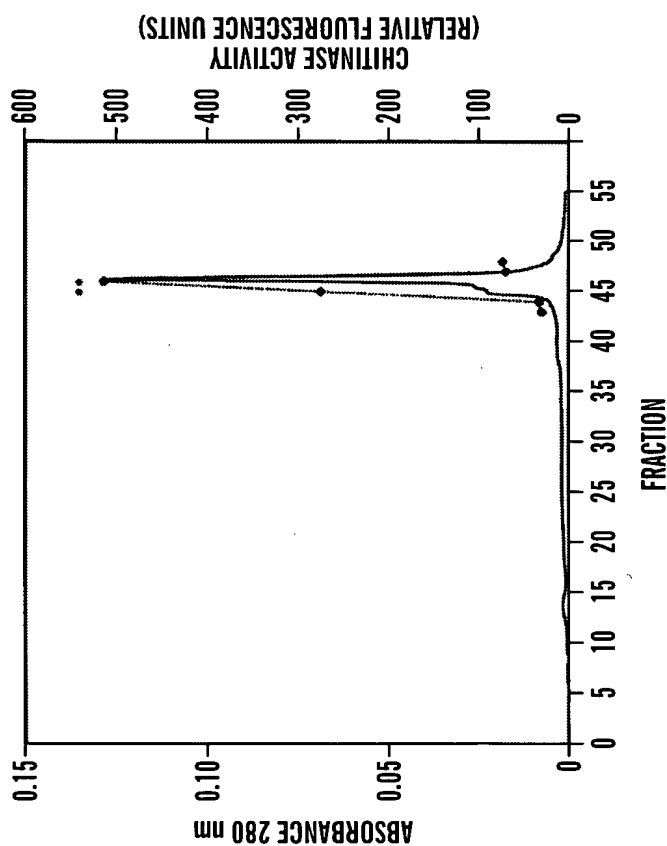


FIG. 1C



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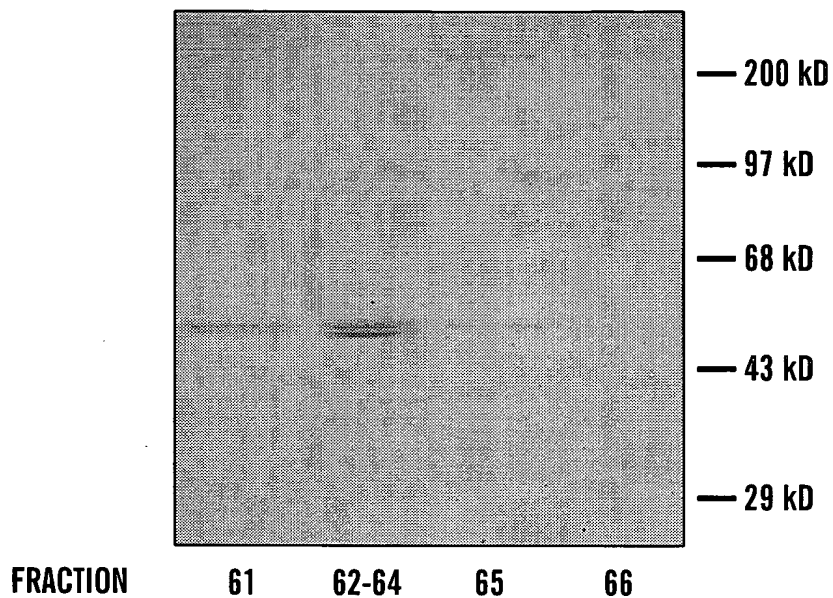


FIG. 1E

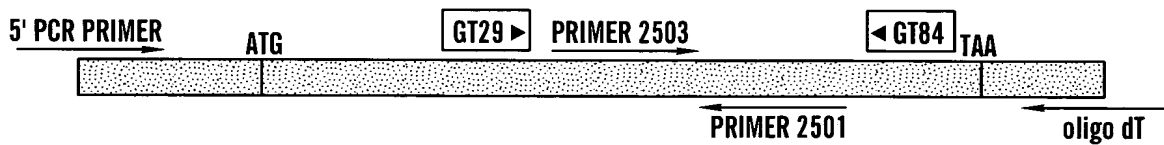


FIG. 2



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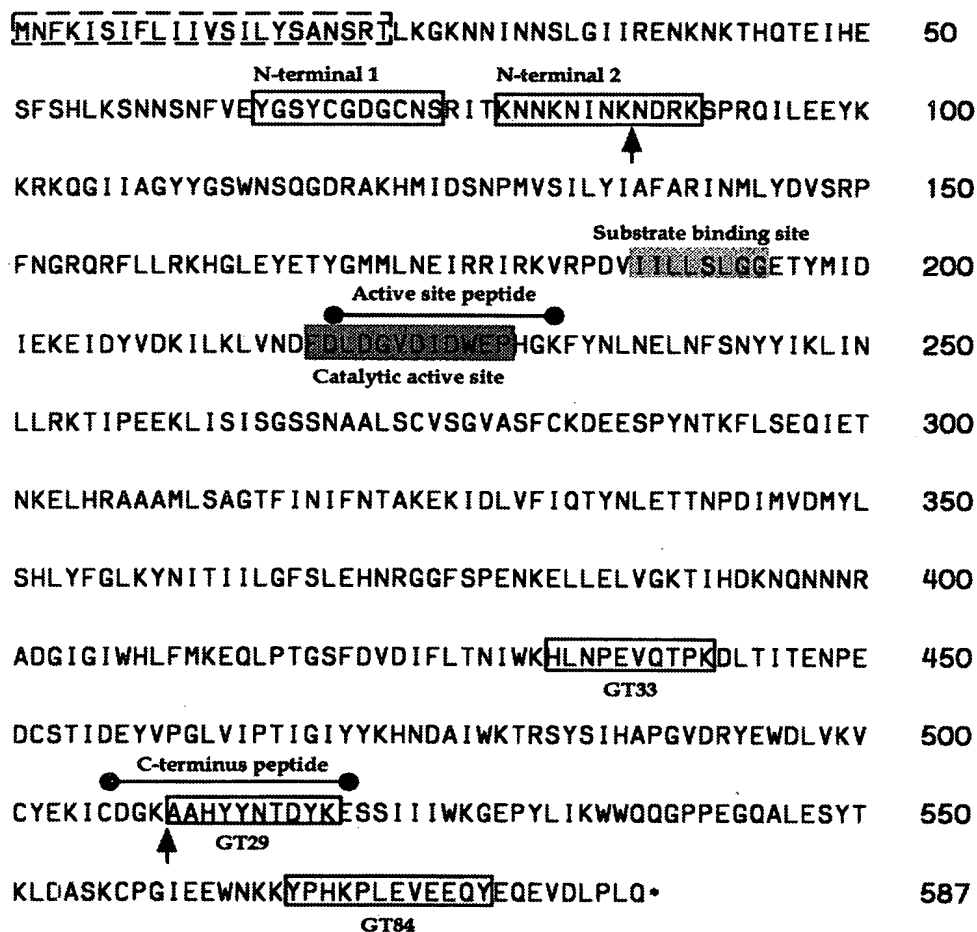


FIG. 3



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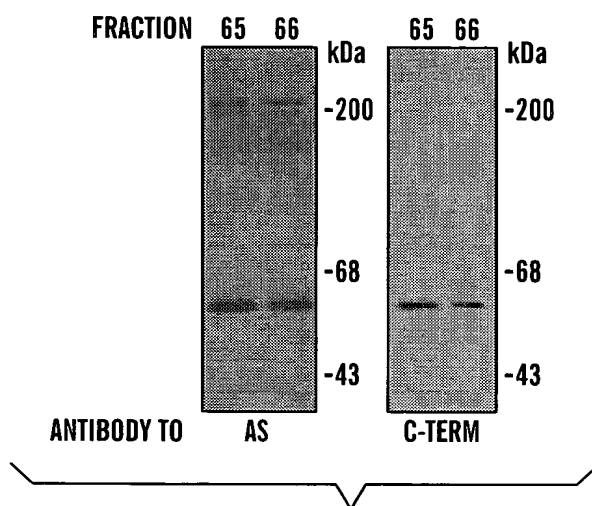


FIG. 4A

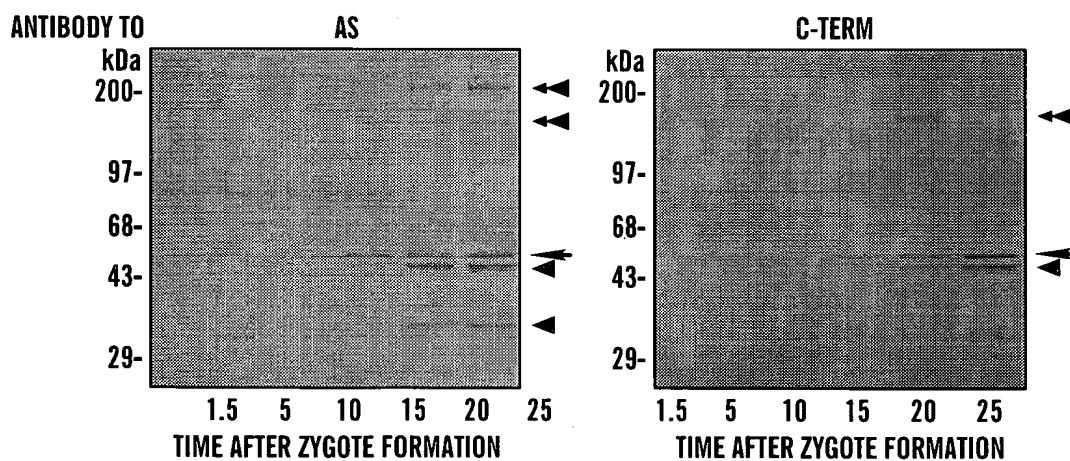


FIG. 4B

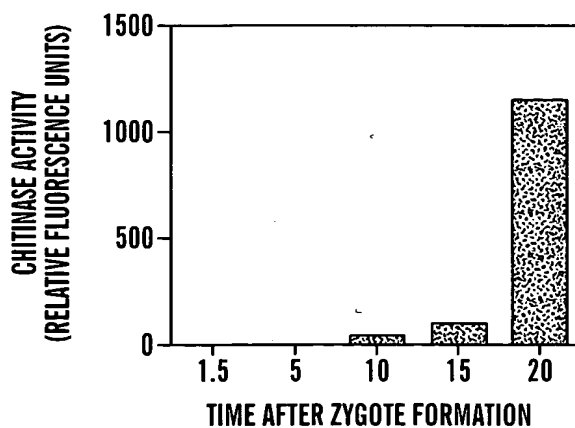


FIG. 4C

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FIG. 5C

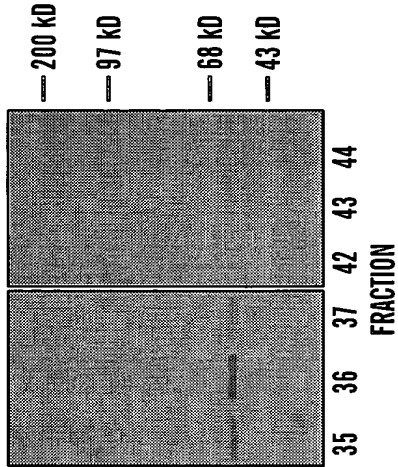


FIG. 5E

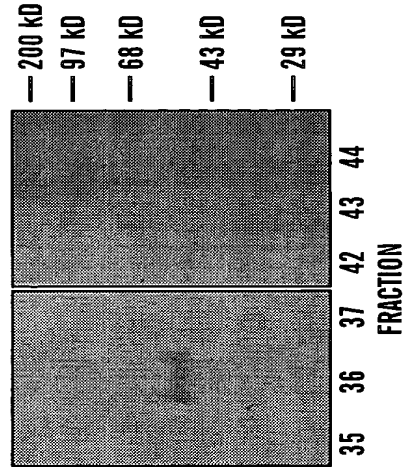


FIG. 5B

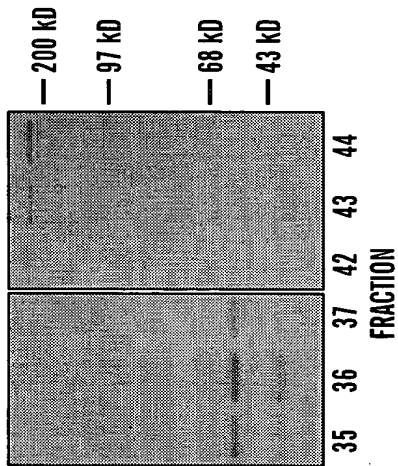


FIG. 5D

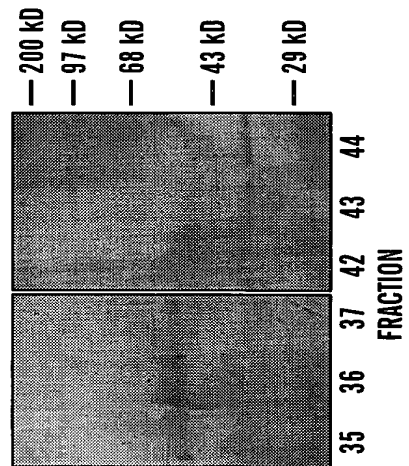
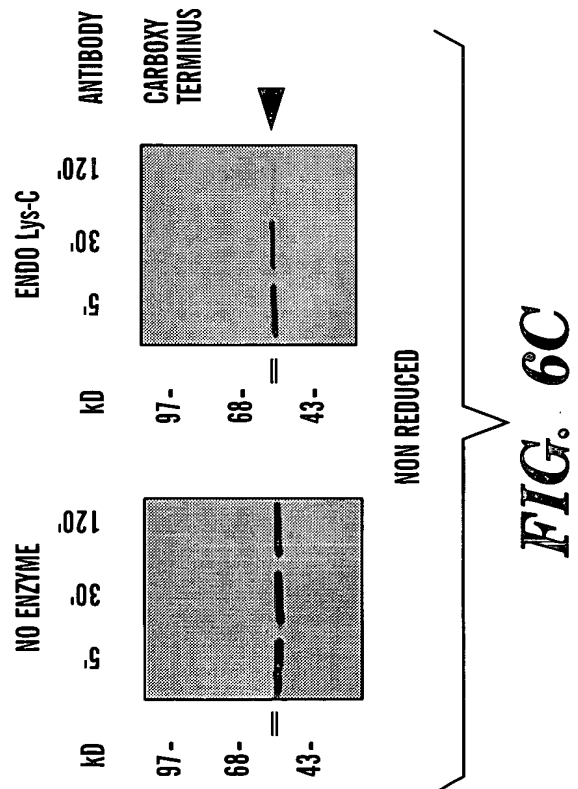
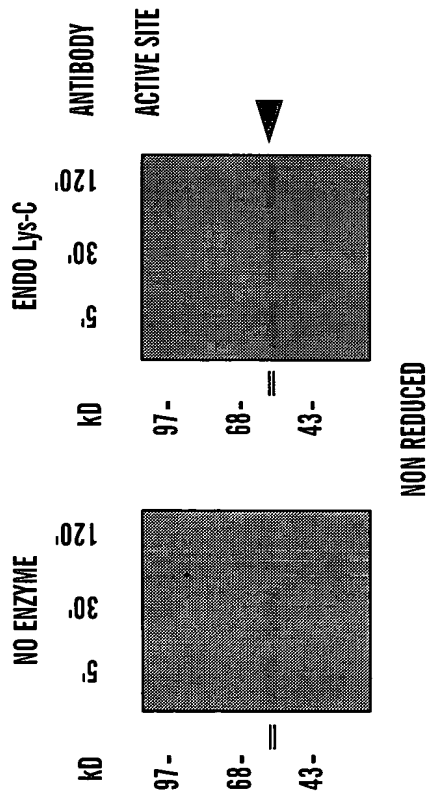
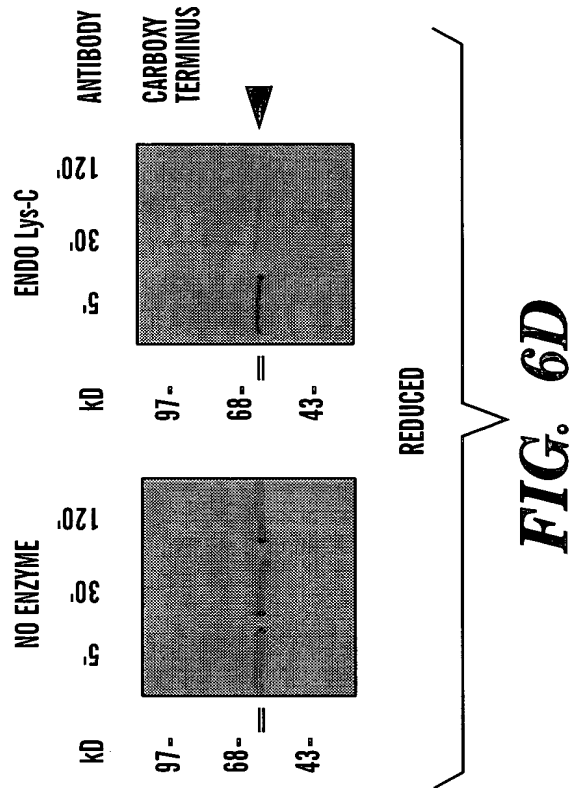
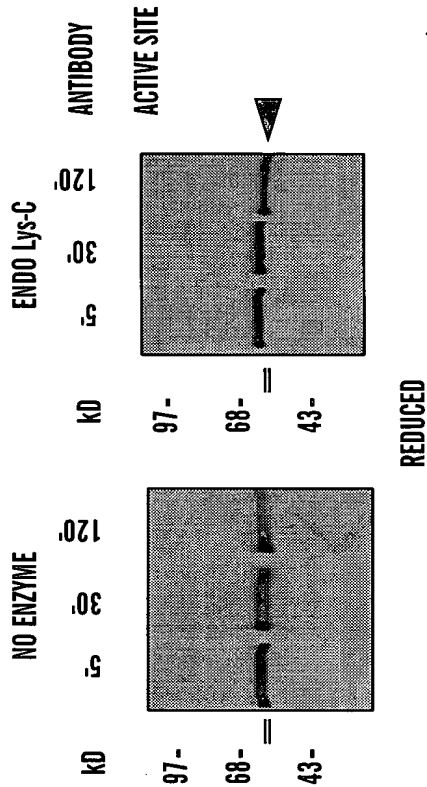


FIG. 5A

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FIG. 7A

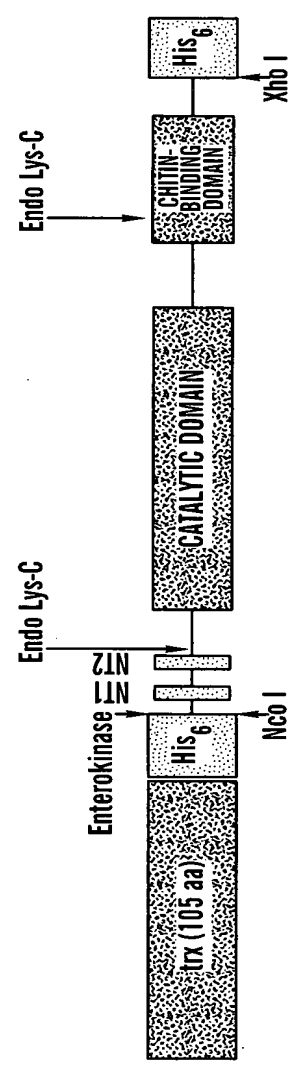


FIG. 7B

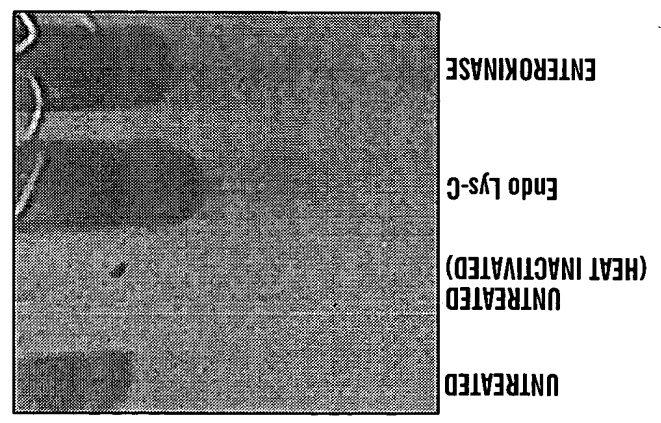
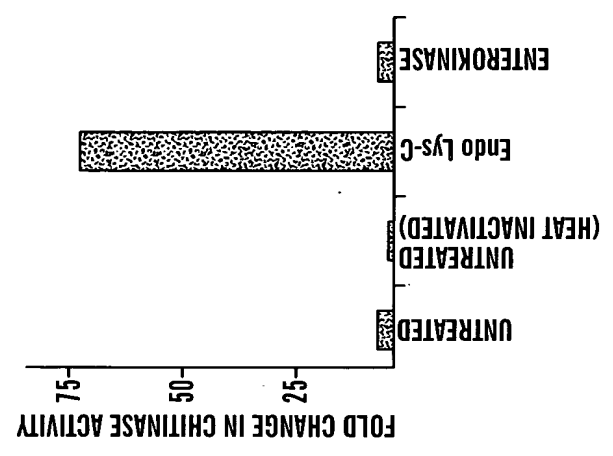


FIG. 7C





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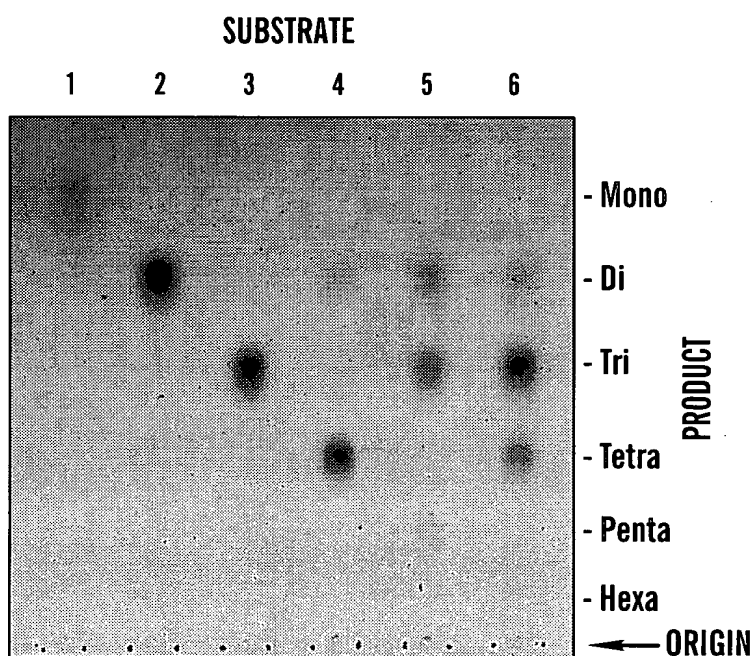


FIG. 8



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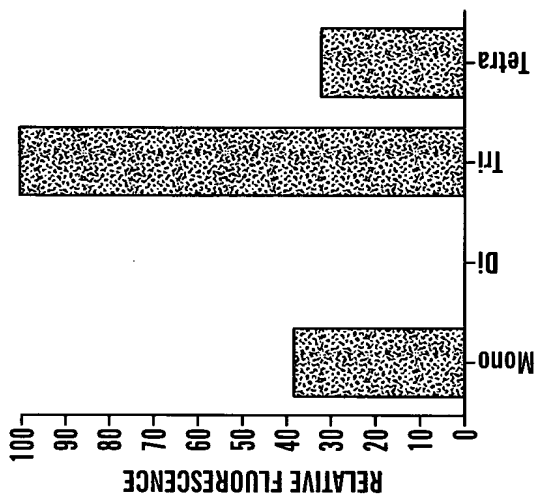


FIG. 9B

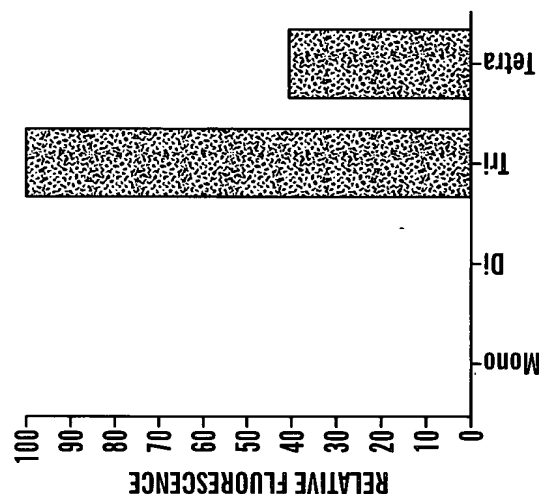


FIG. 9D

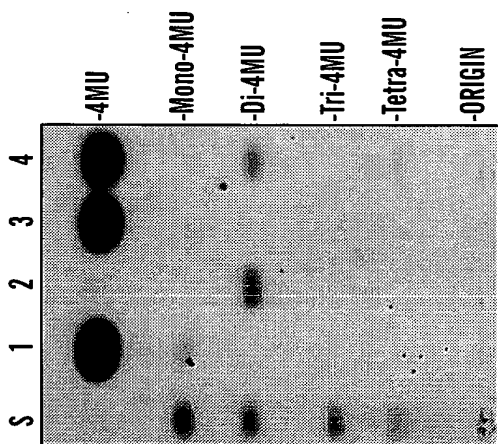


FIG. 9A

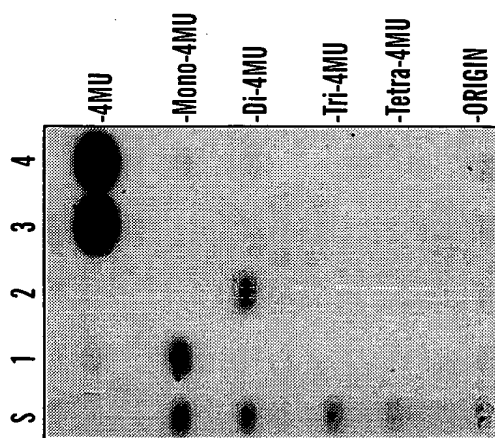


FIG. 9C



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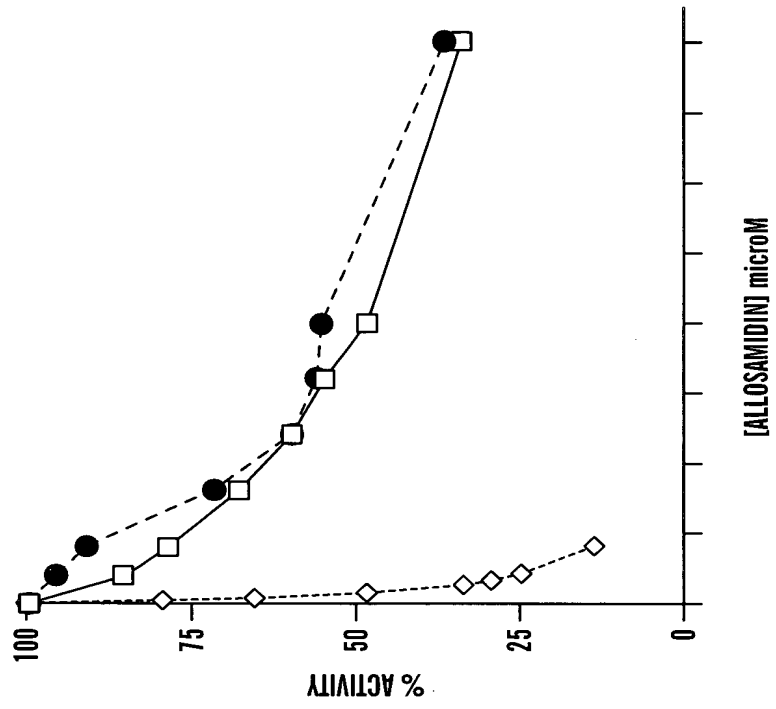


FIG. 10B

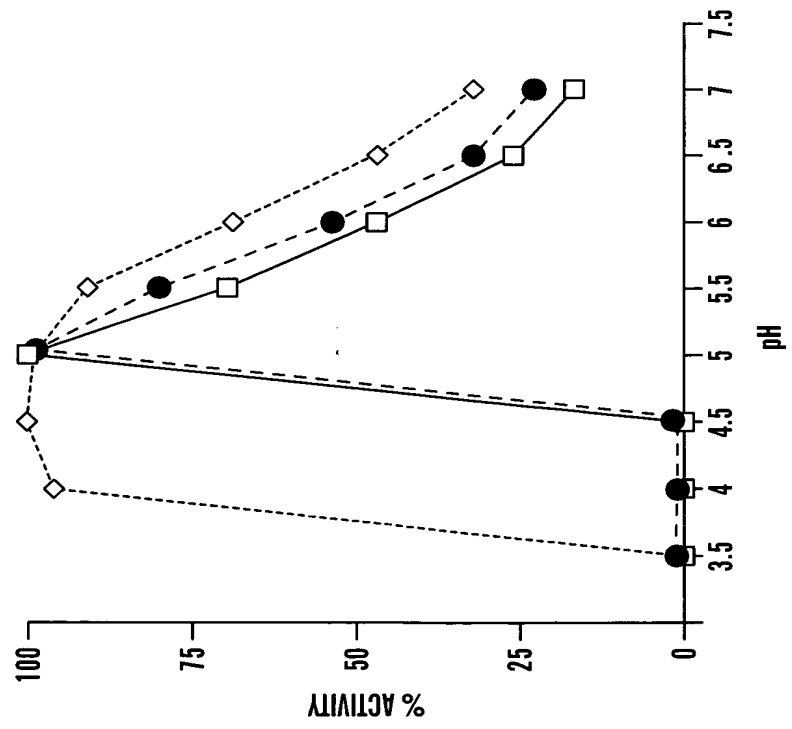


FIG. 10A



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FIG. 11

PfCHT1 MNFTVKSFLVIGLACCLSTVSVIRG----- 28
PgCHT1 MNFKASLELLAVSILYSANST-----LGGNNINNSLGLRENNKNTHOTTEHESFSLKSNNSNFTVE 64
Pro-enzyme domain

PfCHT1 HRARPGESE-----KN-----Catalytic domain begins
PgCHT1 -----YGSYCGDGCNSRITTONNININNDNRKSPQILEEYCKRQGIAGYYGSWNSQDDRAKEMI 125
NT1 NT2 Substrate-binding site

PfCHT1 --NPNLNVVHMSPAQDLSYDSIESIVGSPLLFKSLIGLEYIGLNEYFPNDAMNLRKARPDIMLLSLGGE 140
PgCHT1 DSNPMVSILYIAPARINMLYDVSPPFNGRQRFLLRKHGLEYYETYGMLNBEIRIRKVRPDVILLSLGGE 195
Active site

PfCHT1 TYHPSSFDSALNAVEKIANLVDELGPDGIDVDYEPNGSPDGLNDKBEKADFFVQYVTKLREYMCDDKLISI 210
PgCHT1 TYM-IDIEKEIDYVDKILKLVNDFDLGVDIDWEPHGKPYNLNBNLFSNYIKLINLLAKTIPEEKLISI 264

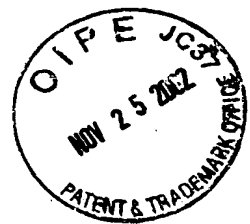
PfCHT1 SQSSNGALSCI-GFNDPKKICDDEAPYNSKYFNKP-DVKKELLRAAQMASAGGAIYLAANNLKMIDMVP 278
PgCHT1 SGSSNAALSVCVSGVAS---PCDDESPYNTKFLSEQIETNKEHLRAAAMLSAGTFINIFNTAKEKIDLVF 331

PfCHT1 VQTFNYTNSDSTVMGELYDSYAYGKCYDYVIMGFTLMFPSTPPNPNDKMLVKSIGDFVKTKENKLNKR 348
PgCHT1 IQTYNL-ETTNPDIWVDNYLSHLYPGLKNITIIIGFSLERHNRGQSPENKELLELVGKTIHDKNQNNR 400

Catalytic domain ends

PfCHT1 ADGFGWLSSLSSDAAHNEQLAIEYFVESLH. 378
PgCHT1 ADGIGIMHLFMKBQLPTGSDVDIFLTNIWCHLNPEVQTPKDLTITENPEDCSTIDEYVPGLVIPITIGIN 470
Chitin-binding domain begins

PfCHT1 DYYTHAIWKTRSYSIHAPGVDRYENDLVKVCYEKICDGKAANYNTDYKESSIIIMKGEPLYIKWQQGP 540
PgCHT1 PEGQALESYTKLDASKCPGIEBNKCYPHKPLEVEEQYEQEVDLPQ. 587



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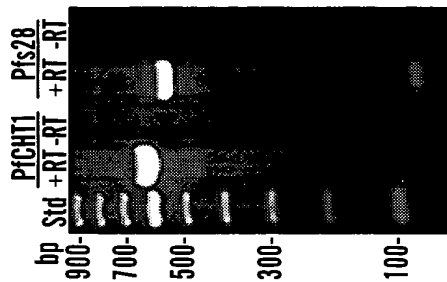


FIG. 12C

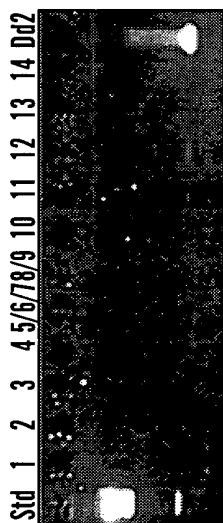


FIG. 12B

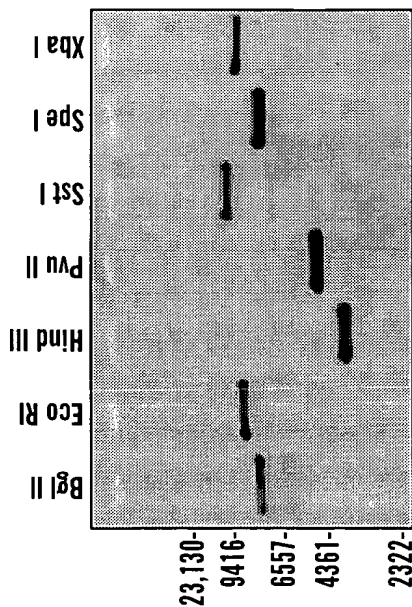


FIG. 12A



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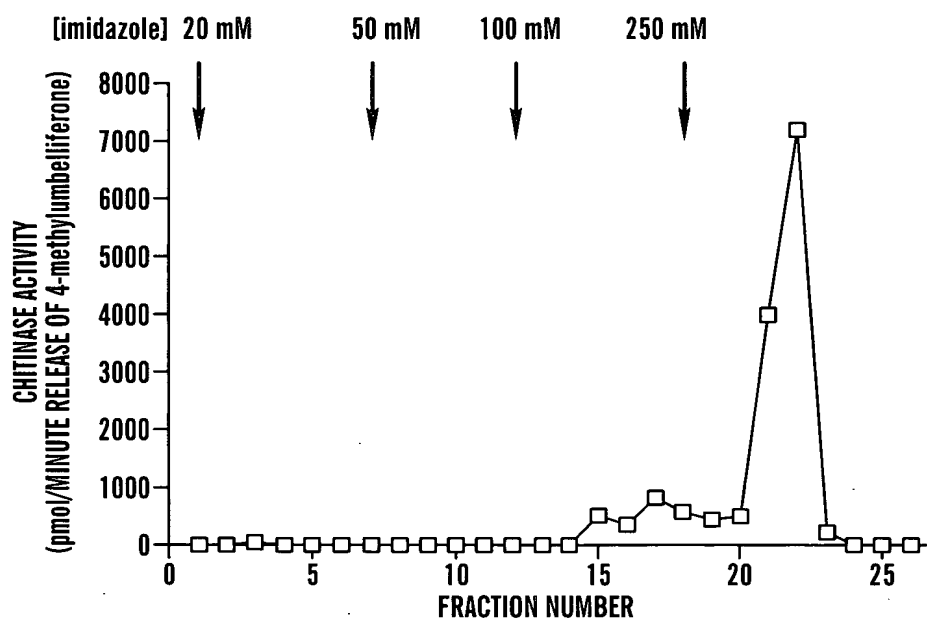


FIG. 13A

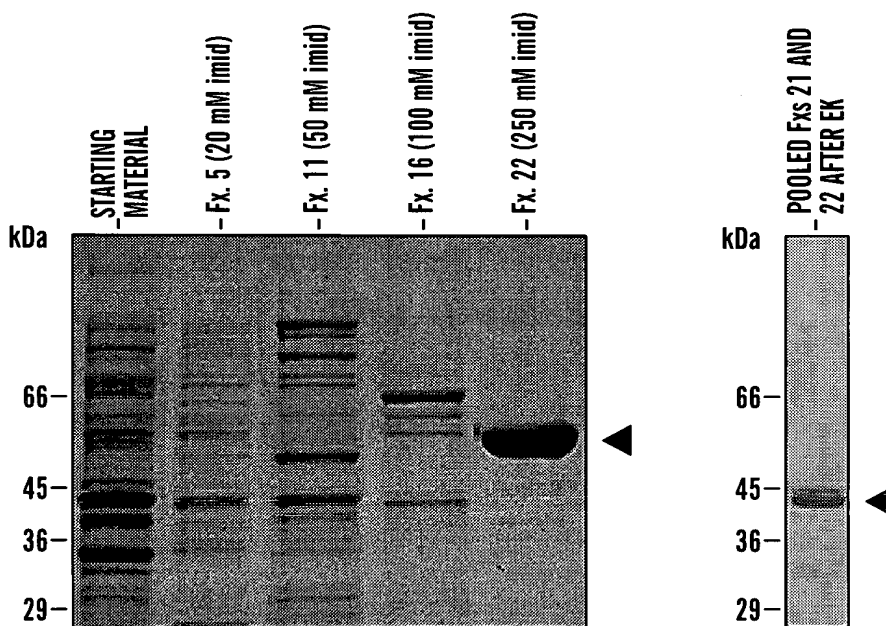


FIG. 13B

FIG. 13C

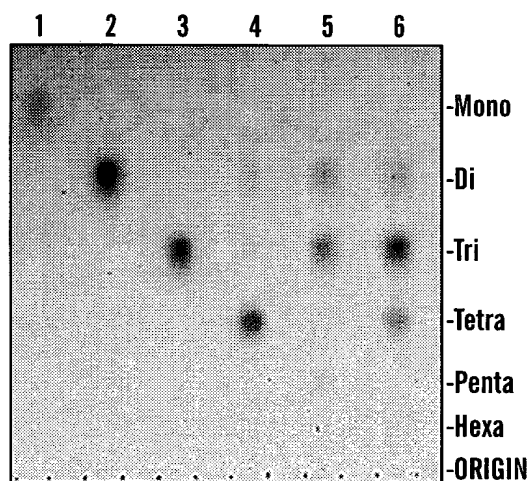


FIG. 14A

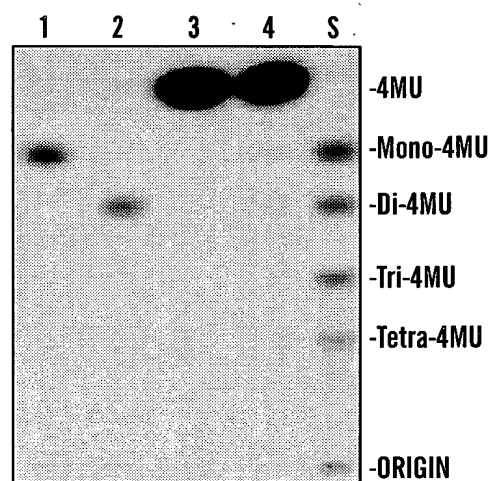


FIG. 14B

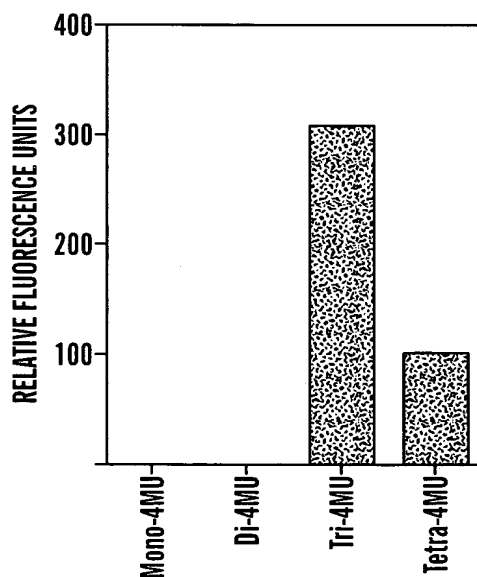


FIG. 14C



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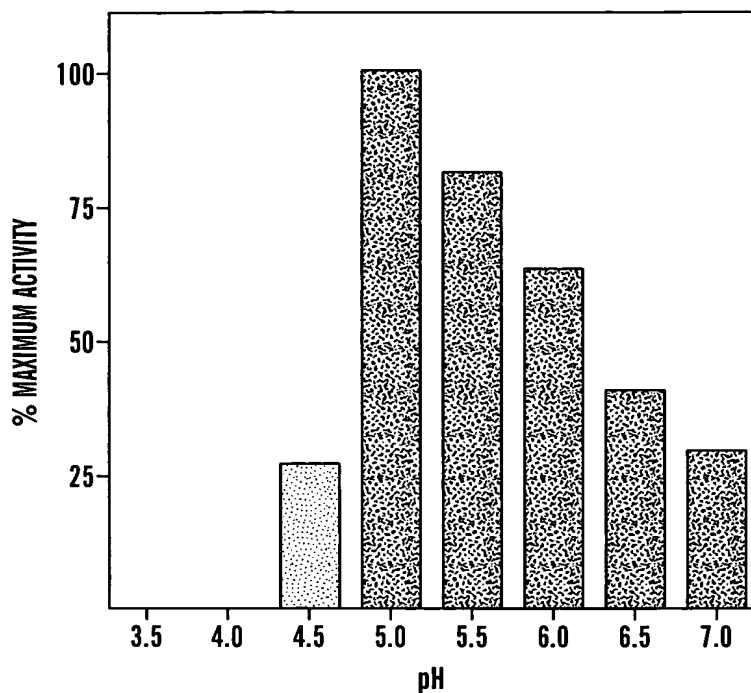


FIG. 15A

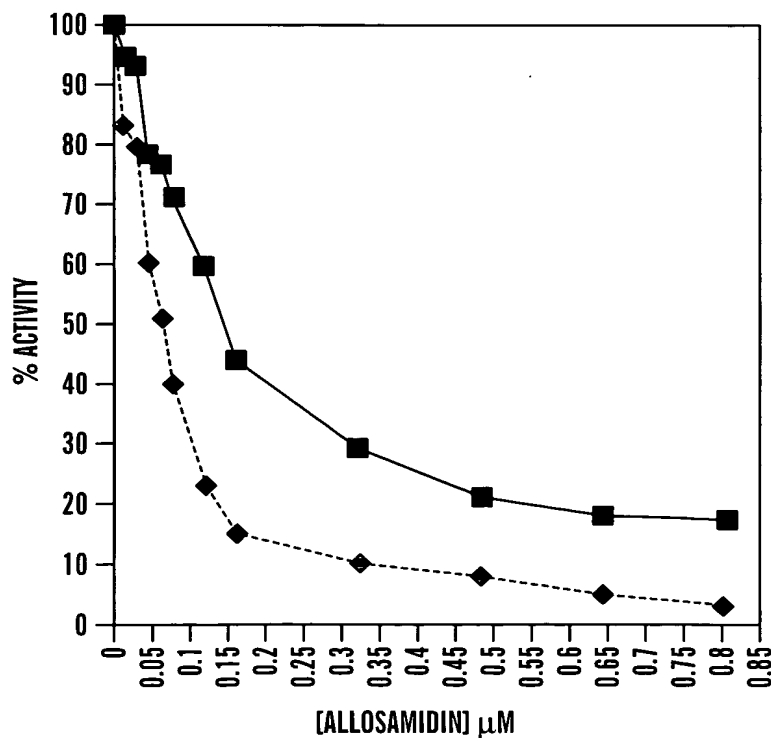


FIG. 15B



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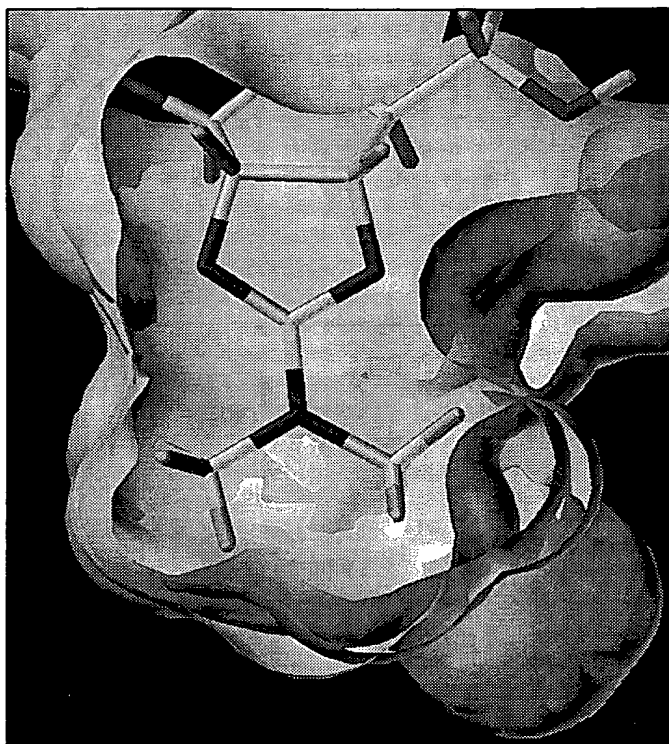


FIG. 16